

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T     S H E E T  
(pursuant to NAC 445A.236)

**Permittee Name:**        Utilities Inc. of Central Nevada  
                                 1240 E. State Street   Suite 115  
                                 Pahrump, Nevada 89048

**Permit Number:**    NEV97016

**Description of Discharge**

**Location:**    Calvada North Plant #2/Plant "F" Wastewater Treatment  
                                 Plant  
                                 Leslie Street and Avellaneda Street, Calvada Valley  
                                 North, Unit #3, Block 8, Lot 1  
                                 Pahrump, Nye County, Nevada    89048

                                 Latitude        36° 12' 00"N; Longitude    116° 00' 30"W  
                                 SW1/4,NW1/4 Section 17, T. 19S., R. 53E., MDB&M

**General:**    The Permittee has applied for a modification and renewal of a permit to discharge from Plant "F" to groundwaters of the state via infiltration in rapid infiltration basins (Outfall 001), and land application via onsite effluent reuse irrigation (Outfall 002). Future export to approved and individually permitted reuse sites is planned (Outfall 003). The existing package treatment plant, is a 0.010 MGD plant, is designed to treat domestic wastewater. The modification is for the installation of a new treatment plant utilizing an ECOfluid System, Inc. USBF<sup>®</sup> facility which will provide the expansion of Plant "F", and increase flows to a Phase I capacity of 0.050 MGD and further expansion to a Phase II flow of 0.100 MGD subject to Nevada Division of Environmental Protection (Division) review and approval. The expansion of Plant "F" is in response to the large and rapid growth in the Pahrump area, and particularly in the service area in this sector of the valley.

The plant will be operated in accordance with the approved Operations and Maintenance Manual (O & M) for the facility. The new treatment facility is an ECOfluid System, Inc. USBF plant which is designed to treat domestic wastewater in the service area via an "upflow sludge blanket filtration process". This new plant replaces the existing 0.010 MGD Marwood activated sludge process denitrifying package treatment plant which is designed to treat wastewater to meet secondary treatment standards. The new facility will produce denitrified and disinfected effluent meeting the 30-day average standard of 2.2 CFU/100 ml Total Coliform for reuse category Class A effluent, NAC 445A.2762. There is a 55' X 80' HDPE lined storage basin on site which can

be uses as a flow equalization basin for influent wastewater flows to mitigate peak flow events and stormwater.

**Flow:** The current plant facility has a flow limit for the 30-day average of 0.010 MGD (million gallons a day). The expansion is in anticipation of rapidly increasing flows due to the extensive rapid growth being experienced in the service area. The flow limits for the facility expansion with the new plant installation are as specified below.

**Effluent Limitations:**

**The discharges shall be limited and monitored by the Permittee as specified below:**

<u>PARAMETERS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	<u>30-day Ave.</u>	<u>Daily Max</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
INFLUENT FLOW:				
Phase I	0.050 MGD	M & R	Continuous	Recorder
Phase II	0.100 MGD	M & R	Continuous	Recorder
EFFLUENT FLOW:				
Outfall 001	M & R	M & R	Continuous	Meter
Outfall 002	M & R	M & R	Continuous	Meter
Outfall 003	M & R	M & R	Continuous	Meter
(Future)				
INFLUENT BOD <sub>5</sub> :	M & R	M & R	Monthly	Composite
EFFLUENT BOD <sub>5</sub> :	10 mg/L	15 mg/L	Monthly	Composite
TOTAL SUSPENDED				
SOLIDS: INFLUENT:	M & R	M & R	Monthly	Composite
EFFLUENT:	10 mg/L	15 mg/L	Monthly	Composite
AMMONIA as N:	M & R	M & R	Monthly	Composite
NITRATE AS N:	M & R	M & R	Monthly	Composite
TOTAL NITROGEN				
as N: Phase I, II	10 mg/L	M & R	Monthly	Composite
pH:	Between 6.0 and 9.0 SU		Monthly	Discrete
TOTAL COLIFORM:	2.2 CFU/100 ml	23 CFU/100 ml	Monthly	Discrete

**Receiving Water Characteristics:** The receiving water is the groundwater of the State of Nevada. Based on historic data, the groundwater in the immediate area is potable and a drinking water source. Depth to groundwater is about 90-100 feet below ground surface.

**GROUNDWATER MONITORING:** Well # 1, #2, #3

TDS:	Monitor & Report	June & November
Total Nitrogen as N:	10 mg/L	June & November
Nitrate as N:	Monitor & Report	June & November
Chlorides:	Monitor & Report	June & November
Groundwater Elevation:	Monitor & Report	June & November
Static Water Level	Monitor & Report	June & November

**Procedures for Public Comment:**

The notice of the Division's intent to reissue and modify a permit authorizing the facility to discharge to groundwaters of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Pahrump Valley Times and the Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the newspaper publication of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of U.S. EPA Region IX or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing scheduled by the Administrator must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

**Proposed Determination**

The Division has made the tentative determination to issue the proposed modified permit for a five (5) year period.

FACT SHEET

**Schedule of Compliance and Special Conditions**

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. A revised Operations and Maintenance Manual (O & M) and revised Effluent Management Plan (EMP) shall be submitted to the Division for review and approval by July 30, 2006. Interim wastewater handling shall be noted in the document. A sludge Management Plan shall also be included in the O & M Manual. If sludge is disposed to locations other than approved landfill sites, said plan must also address Part 40 CFR Section 503 of the federal regulations. A groundwater monitoring plan shall also be included in the EMP as an Appendix. Phase II revisions to the O & M and EMP shall be submitted to the Division for review and approval within 60 days of Phase II facility start up.
- c. The Phase I flow shall be limited to 0.050 MGD. **\* Phase II flows shall not be in effect until all plans and specifications have been approved by the Division. For each Phase (I and II) a Letter of Certification wet stamped by a Nevada Registered Engineer shall be submitted to the Division stating that the facility is operational and that its components have been constructed in accordance with Division approved plans and specifications. A copy of the as-builts for each phase of the facility's expansion and its related infrastructure shall be included with the Certification.**
- d. A letter of Certification wet-stamped by a Nevada Registered Professional Engineer shall be submitted to the Division stating that all expansion elements are constructed in accordance with Division approved plans and specifications for the Phase II expansion. **The increased flow limit shall become effective upon receipt of said letter.**
- e. NDEP shall be notified no later than two weeks after the Phase II plant start up that the plant is operational.

**Rationale for Permit Requirements:**

Monitoring is required to assess the level of treatment being provided, to determine when design capacity is being approached and to ensure that groundwaters are not degraded.

Prepared by: Icyl C. Mulligan  
(01/06)

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